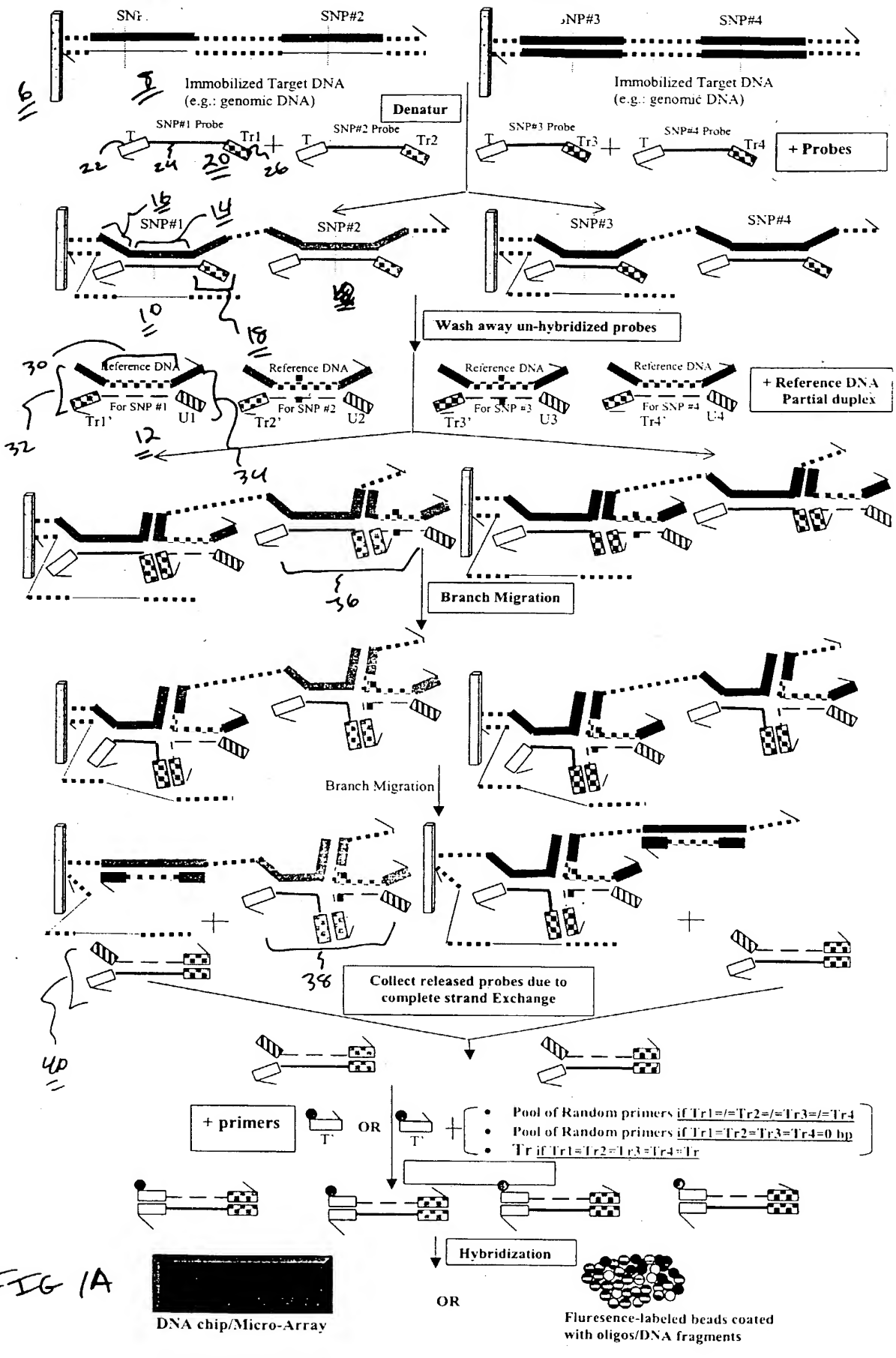
SNP#1
SNP#2
SNP#3
SNP#4
Immobilized Target DNA
(e.g.: genomic DNA)
Denatur
SNP#1 Probe
Tr1
SNP#2 Probe
Tr2
SNP#3 Probe
Tr3
SNP#4 Probe
Tr4
+ Probes
Wash away un-hybridized probes
Reference DNA
For SNP #1
U1
Tr1'
For SNP #2
U2
Tr2'
For SNP #3
U3
Tr3'
For SNP #4
U4
Tr4'
+ Reference DNA
Partial duplex
Branch Migration
Collect released probes due to
complete strand Exchange
+ primers
OR
Pool of Random primers if Tr1=/=Tr2=/=Tr3=/=Tr4
Pool of Random primers if Tr1=Tr2=Tr3=Tr4=0 bp
Tr if Tr1=Tr2=Tr3=Tr4=Tr
Hybridization
OR
DNA chip/Micro-Array
Fluresence-labeled beads coated
with oligos/DNA fragments

FIG 1A

Or alternatively:

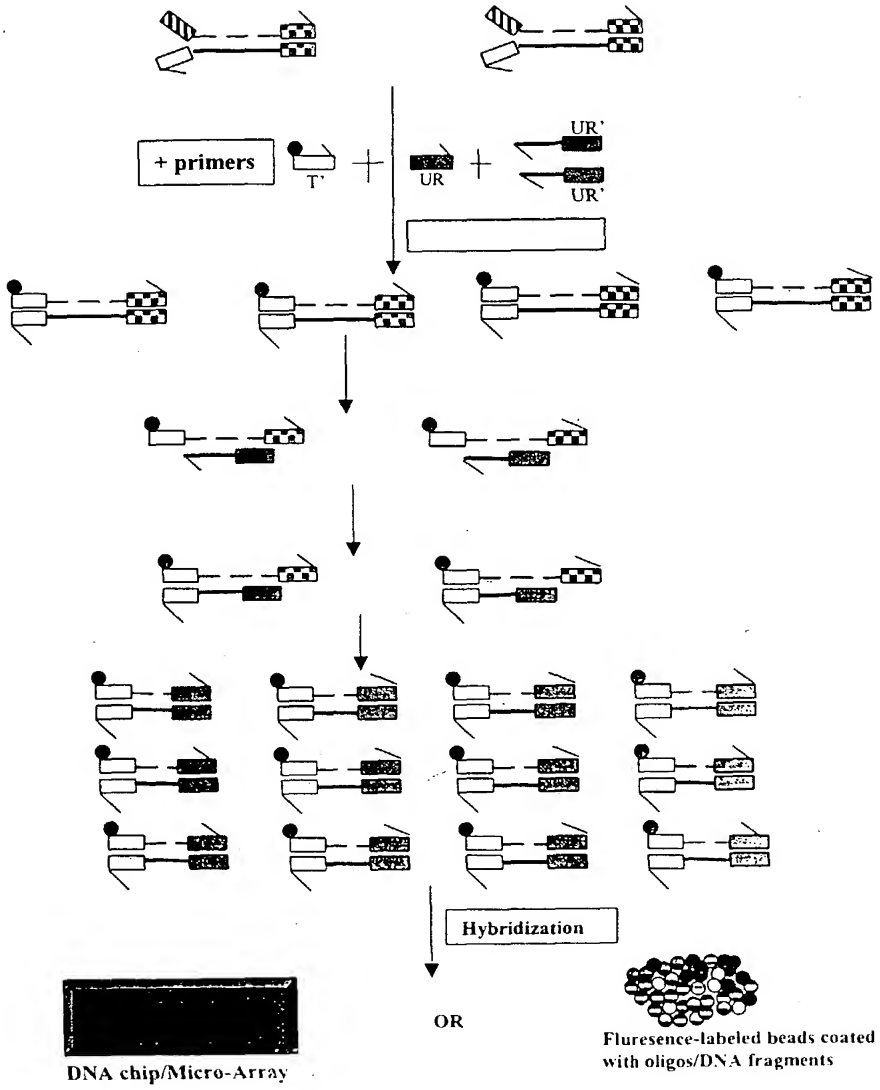

FIG 1B